



Dan Skopec
Acting Secretary

California Regional Water Quality Control Board North Coast Region

5550 Skylane Boulevard, Suite A, Santa Rosa, California 95403
Phone 707-576-2220 • Fax 707-523-0135
<http://www.waterboards.ca.gov/northcoast/>



Arnold Schwarzenegger
Governor

ORDER NO. R1-2006-0021
(Revised September 20, 2006)
NPDES NO. CA0022748

The following Discharger is authorized to discharge in accordance with the conditions set forth in this Order:

Discharger	City of Rio Dell
Name of Facility	Wastewater Treatment Plant
Facility Address	475 Hilltop Drive
	Rio Dell, California 95562
	Humboldt County

The Discharger is authorized to discharge from the following discharge points as set forth below:

Discharge Point	Effluent Description	Discharge Point Latitude	Discharge Point Longitude	Receiving Water
001	Treated municipal wastewater	40 ° , 29 ' , 45 " N	124 ° , 5 ' , 30 " W	Eel River

This Order was adopted by the Regional Water Board on:	September 20, 2006
This Order shall become effective on:	November 1, 2006
This Order shall expire on:	November 1, 2011
The U.S. Environmental Protection Agency (U.S. EPA) and the Regional Water Board have classified this discharge as a major discharge.	
The Discharger shall file a Report of Waste Discharge in accordance with Title 23, California Code of Regulations, <u>not later than 180 days in advance of the Order expiration date</u> as application for issuance of new waste discharge requirements.	

IT IS HEREBY ORDERED, that Order No. R1-2000-15 is rescinded upon the effective date of this Order except for enforcement purposes, and, in order to meet the provisions contained in Division 7 of the California Water Code (CWC) and regulations adopted thereunder, and the provisions of the federal Clean Water Act (CWA), and regulations and guidelines adopted thereunder, the Discharger shall comply with the requirements herein.

I, Catherine Kuhlman, Executive Officer, do hereby certify that the following is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, North Coast Region, on May 17, 2006.

Catherine Kuhlman, Executive Officer

- e. There shall be no acute toxicity in the effluent when discharging to the Eel River, as measured at Monitoring Location M-001. The Discharger will be considered in compliance with this limitation when the survival of aquatic organisms in a 96-hour bioassay using undiluted effluent complies with the following.
 - i. Minimum for any one bioassay: 70 percent survival.
 - ii. Median for any three or more consecutive bioassays: at least 90 percent survival.

Compliance with this effluent limitation shall be determined in accordance with Section V.A. of the Monitoring and Reporting Program No. R1-2006-0021.

- f. Priority and non-priority toxic pollutant effluent limitations. During periods of discharge to the Eel River, representative samples of treated wastewater from Discharge Point 001, with compliance measured at Monitoring Location M-001 shall not contain constituents in excess of the following limits:

Parameter	Unit	Average Monthly	Maximum Daily
Copper	µg/L	6.1	12
Cyanide	µg/L	4.3	8.5
Dichlorobromomethane	µg/L	0.56	1.1
Methyl tertiary butyl ether (MtBE)	µg/L	13	26

Interim Effluent Limitations – Discharge Point 001, Direct Discharge to Eel River

2. Interim Effluent Limitations – Discharge Point 001, Direct Discharge to Eel River

- a. Priority pollutant effluent limitations. Interim priority pollutant effluent limitations shall be effective until May 18, 2010. Based on the current performance of the WWTF, during periods of discharge to the Eel River, representative samples of treated wastewater collected at Monitoring Location M-001 shall not contain constituents in excess of the following limits:

Parameter	Unit	Average Monthly	Maximum Daily
Copper	µg/L	13	13
Cyanide	µg/L	7.0	7.0
Dichlorobromomethane	µg/L	0.9	0.9
Methyl tertiary butyl ether (MtBE)	µg/L	1.8	1.8

evidence that a priority pollutant is present in the effluent above an effluent limitation and either:

- i. A sample result is reported as detected and not quantified (DNQ) and the effluent limitation is less than the Reporting Limit (RL); or,
- ii. A sample result is reported as not detected (ND) and the effluent limitation is less than the method detection limit (MDL).

4. Compliance Schedules

- i. Copper; Cyanide; Dichlorobromomethane; Methyl Tertiary Butyl Ether.
During the term of this Order, the Discharger shall complete the following tasks for Dichlorobromomethane and in compliance with the following time schedule to achieve compliance with the final effluent limitations for Dichlorobromomethane in Section IV.A.1.g. of this Order by May 18, 2010.

Task No.	Task Description	Compliance Date
1	Compile monthly monitoring data during the 2006/2007 and 2007/2008 winter seasons. Summarize data for Copper, Cyanide, Dichlorobromomethane, and Methyl Tertiary Butyl Ether. Evaluate data and develop a summary reporting the Redway WWTF's ability to achieve final effluent limitations.	No later than 2 years following the effective date of this Order
2	In concert with actions taken to comply with item number 1 above, implement source control efforts for Copper, Cyanide, Dichlorobromomethane, and Methyl Tertiary Butyl Ether, including a review of vendor product data, evaluate treatment plant processes, optimize processes wherever possible.	No later than 2 years following the effective date of this Order
3	If the Copper, Cyanide, Dichlorobromomethane, and Methyl Tertiary Butyl Ether source control efforts in Task 2 do not result in removal of reasonable potential for these pollutants in excess of final effluent limitations, the Discharger shall submit a work plan for the Executive Officer's approval, describing studies that will be conducted to determine the feasibility of an engineered alternative.	No later than 2.5 years following the effective date of this Order
4	Submit, for Executive Officer approval, an implementation plan to achieve compliance with the final effluent limitations for Copper, Cyanide, Dichlorobromomethane, and Methyl Tertiary Butyl Ether.	No later than 3 years following the effective date of this Order
5	Comply with final CTR effluent limitations for Copper, Cyanide, Dichlorobromomethane, and Methyl Tertiary Butyl Ether.	May 18, 2010

Parameter	Units	Effluent Limitation		
		Average Monthly	Average Weekly	Maximum Daily
Chlorine Residual	mg/L	---	---	< 0.1 ^b
MtBE	µg/L	13	---	26
Copper	µg/L	8.3	---	16.6
Cyanide	µg/L	4.3	---	8.5
Dichlorobromomethane	µg/L	0.56	--	1.13

Notes:

^a Applies to percent difference between influent and effluent concentrations of BOD and TSS respectively.

^b Applies only during periods of direct discharge to the Eel River.

- There shall be no acute toxicity in the effluent when discharging to the Eel River, as measured at Monitoring Location M-001. The Discharger will be considered in compliance with this limitation when the survival of aquatic organisms in a 96-hour bioassay of undiluted waste complies with the following:
 - i. Minimum for any one bioassay: 70 percent survival
 - ii. Median for any three or more consecutive bioassays: at least 90 percent survival

Compliance with this effluent limitation shall be determined in accordance with Section V.A. of Monitoring and Reporting Program No. R1-2006-0021.

E. Interim Effluent Limitations and Compliance Schedules

The following interim effluent limitations are established in this Order, and are effective until May 18, 2010:

Constituent	Unit	Interim Limitations	
		AMEL	MDEL
Cyanide	µg/L	---	7.0
Copper	µg/L	---	13
Dichlorobromomethane	µg/L	---	0.9
Methyl Tertiary Butyl Ether	µg/L		1.8

The interim effluent limitations for cyanide, copper, dichlorobromomethane, and methyl tertiary butyl ether are set as maximum daily effluent limitations and are based on the highest effluent concentrations of each pollutant detected in the Discharger's monitoring data.

F. Land Discharge Specifications

This section of the standardized Order form is not applicable to the City of Rio Dell Wastewater Treatment Facility.

G. Reclamation Specifications

This section of the standardized Order form is not applicable to the City of Rio Dell Wastewater Treatment Facility.

V. RATIONALE FOR RECEIVING WATER LIMITATIONS

A. Surface Water

Receiving water limitations contained in this Order are derived from Chapter 3 of the Basin Plan. Several of the receiving water limitations were modified to more accurately reflect Basin Plan objectives for inland surface waters, enclosed bays, and estuaries contained in Chapter 3 of the Basin Plan. Narrative receiving water limitations that were modified include V.A.2. (pH), and V.A.11 (pesticides) and receiving water limitation V.A.14 (chemical constituents) was added. Narrative receiving water limitations for other water quality objectives identified in Chapter 3 of the Basin Plan remain unchanged from the existing Order and are included in the draft Order.

B. Groundwater

Groundwater limitations included in the proposed draft Order were derived from Water Quality Objectives for Groundwaters contained in Chapter 3 of the Basin Plan.

VI. RATIONALE FOR MONITORING AND REPORTING REQUIREMENTS

40 CFR 122.48 requires all NPDES Orders to specify recording and reporting of monitoring results. CWC Sections 13267 and 13383 authorize the Water Boards to require technical and monitoring reports. The Monitoring and Reporting Program, Attachment E of this Order, establishes monitoring and reporting requirements to implement federal and state requirements. The following provides the rationale for the monitoring and reporting requirements contained in the Monitoring and Reporting Program for this facility.

A. Influent Monitoring

NPDES regulations at 40 CFR 133 define secondary treatment to include 85 percent removal of BOD₅ and TSS during treatment. Monitoring of influent for these pollutant parameters, in addition to effluent, is required to monitor compliance with this standard of performance.

4. Compliance Schedules

Detection of cyanide, copper, dichlorobromomethane, and methyl tertiary butyl ether in samples collected during the last permit term indicated reasonable potential for excursions above water quality criteria in the receiving water, requiring establishment of new effluent limitations. During the term of Order R1-2006-0022, the discharger is required to collect additional monitoring data, evaluate WWTF processes, and determine appropriate measures to be taken to meet the newly established water quality effluent limitations no later than May 18, 2010.

5. Construction, Operation and Maintenance Specifications

40 CFR 122.41 (e) requires proper operation and maintenance of Permitted wastewater systems and related facilities to achieve compliance with Order conditions. An up-to-date operation and maintenance manual, as required by Provision VI.C.5.a.i. of the Order, is an integral part of a well-operated and maintained facility.

6. Special Provisions for Municipal Facilities (WWTFs Only)

The Regional Water Board includes standard provisions in all NPDES Orders for municipal wastewater treatment facilities regarding wastewater collection systems, sanitary sewer overflows, source control, sludge handling and disposal, operator certification, and adequate capacity. These provisions assure efficient and satisfactory operation of municipal wastewater collection and treatment systems.

a. Wastewater Collection System (Provision VI.C.5.a)

The U.S. EPA has prepared a draft proposed rule intended to address the control of sanitary sewer overflow from municipal wastewater collection systems. The core requirement in the draft Rule is for proper system management under the framework of "CMOM." The proposed CMOM (for Capacity, Management, Operations and Maintenance) rule was to be published in the Federal Register by late 2002, after final review by the federal executive branch. The intent of the Rule is to eliminate "preventable" SSOs by requiring entities to implement appropriate capacity, management, operations, and maintenance practices. The Order conditions under the proposed draft rule will be derived from the Clean Water Act sections 304(i), 308, and 402(a).

A CMOM program is a structured program for managers of wastewater collection system to optimize system performance and maintain their facilities. CMOM is an iterative process of evaluating and improving procedures for managing collection systems and ensuring system performance. Under United States Environmental Protection Agency's (EPA's) draft proposed sanitary sewer overflow (SSO) Rule, collection system utilities must meet five performance standards:

- Properly manage, operate and maintain all parts of the collection system;
- Provide adequate conveyance capacity;

VIII. PUBLIC PARTICIPATION

The California Regional Water Quality Control Board, North Coast Region (Regional Water Board) is considering the issuance of waste discharge requirements (WDRs) that will serve as a National Pollutant Discharge Elimination System (NPDES) Order for the City of Rio Dell Wastewater Treatment Facility. As a step in the WDR adoption process, the Regional Water Board staff has developed tentative WDRs. The Regional Water Board encourages public participation in the WDR adoption process.

A. Notification of Interested Parties

The Regional Water Board has notified the Discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations. Notification was provided through the publication in the Humboldt Beacon and the Eureka Times-Standard on March 1 and March 17, 2006 respectively and through posting on the Regional Water Board's Internet site at <http://www.waterboards.ca.gov/northcoast/agenda/pending.html> beginning on March 17, 2006.

B. Written Comments

The staff determinations are tentative. Interested persons are invited to submit written comments concerning these tentative WDRs. Comments should be submitted either in person or by mail to the Executive Office at the Regional Water Board at the address above on the cover page of this Order.

To be fully responded to by staff and considered by the Regional Water Board, written comments should be received at the Regional Water Board offices by 5:00 p.m. on **<Date>**.

C. Public Hearing

The Regional Water Board held a public hearing on the tentative WDRs during its regular Board meeting on the following date and time and at the following location.

Date: May 17, 2006
Time: 09:00 am
Location: River Lodge Conference Center
1800 Riverwalk Drive, Fortuna

At the public hearing, the Regional Water Board heard testimony, pertinent to the discharge, WDRs, and Order. Based on the testimony at the May 17 hearing, an amendment to the WDR's will be proposed.

The Regional Water Board will hold a public hearing on the tentative changes to the WDRs during its regular Board meeting on the following date and time and at the following location.

Date: September 20, 2006

Time: 09:00 am
Location: Regional Water Board Hearing Room
5550 Skylane Boulevard, Suite A
Santa Rosa, CA 95403

Please be aware that dates and venues may change. Our web address is <http://www.waterboards.ca.gov/northcoast> where you can access the current agenda for changes in dates and locations.

D. Waste Discharge Requirements Petitions

Any aggrieved person may petition the State Water Resources Control Board to review the decision of the Regional Water Board regarding the final WDRs. The petition must be submitted within 30 days of the Regional Water Board's action to the following address:

State Water Resources Control Board
Office of Chief Counsel
P.O. Box 100, 1001 I Street
Sacramento, CA 95812-0100

E. Information and Copying

The Report of Waste Discharge (RWD), related documents, tentative effluent limitations and special provisions, comments received, and other information are on file and may be inspected at the address above at any time between 8:30 a.m. and 4:45 p.m., Monday through Friday. Copying of documents may be arranged through the Regional Water Board by calling 707-576-2220.

F. Register of Interested Persons

Any person interested in being placed on the mailing list for information regarding the WDRs and NPDES Order should contact the Regional Water Board, reference this facility, and provide a name, address, and phone number.

G. Additional Information

Requests for additional information or questions regarding this order should be directed to Lisa Bernard at 707-576-2677 or lbernard@waterboards.ca.gov.